Currently, **Dr. Ron Radzilowski** is Principal Research Engineer in the corporate process research group at AK Steel Corp.

Ron has worked in operating and engineering functions in the metals industry for the past 45 years. He specializes in ferroalloys, superalloys for the aerospace and chemical industries, stainless steel for architectural applications, and automotive carbon steel. He has held positions of Principal Engineer, Senior Scientist, Group Leader, Electric Arc Melt Shop Manager, Rolling Mill Manager, Process Engineering Manager, Manager Just-in-Time, and Director of Quality at companies such as Ford Motor Company Scientific Research Labs, Elkem Metals Co., Haynes International, Inc., Washington Steel, Severstal NA and AK Steel Corp.

Ron is a member and future chair of the ASM Emerging Technology Awareness Committee (ETAC), past chair of ASM Detroit Chapter, 2008, chair of the American Iron & Steel Institute (AISI) Committee on Manufacturing Technology (COMT), Best Paper Awards chair of the

If you plan to attend the 2017 MS&T Conference next October 9-12 in Pittsburgh, you may find the ASM Emerging Technology Awareness Committee’s “Special Session on Emerging Technologies to Develop and Commercially Adopt Innovative Materials” an “eye opener.” Materials experts from the U.S. DOE, Advanced Manufacturing Office, Oakridge National Laboratories (ORNL) Manufacturing Demonstration Facility, and two entrepreneurial enterprises will present their updates on emerging materials and participate in a panel discussion open to questions from the audience. The special session will be held in Pittsburgh on Tuesday, October 10 at 2PM at the Convention Center.

This is an exciting time in history for breakthrough and disruptive technologies in materials. These emerging technologies are catching the attention of the technical and popular press, or as some call it, OSINT (Open Source Intelligence). Many companies, universities and governmental agencies have “technology scouts” scouring OSINT including the professional international conferences looking for hints of new technologies which could have a major impact on business strategies and decisions down the road. In the materials sector, I have selected a number of technologies which have the potential to be the next Corning® Gorilla® Glass or Next Generation Advanced High Strength Steel. The 75th Woodside Lecture entitled, ”Emerging Technologies - from research to manufacturing” will provide a glimpse of innovative materials such as nanostructures – graphene and mxene, covetic metals, glassy metallics, high entropy alloys and crystalline alloys. Some of these materials have been laboratory curiosities for many years because moving them from the laboratory bench to pilot scale to manufacturing is a major challenge. These materials and the processes required to produce them require a better understanding from the atomic scale to macro scale, a need for innovative processing or manufacturing methods, and new qualification standards.

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**Events Calendar**

**May 8, 2017**
Woodside Lecture
The Gazebo Banquet Facility, Warren
Speaker: Ron Radzilowski.

**August 5, 2017**
ASM/AFS Joint Golf Outing
Fellows Creek, Canton

**75th Woodside Memorial Lecture**
May 8, 2017 • 5:30 – 8:00 P.M.
Speaker: Ron Radzilowski, PhD, FASM
Venue: The Gazebo Banquet Center
31104 Mound Rd., Warren, MI 48092

**Social Hour:** 5:45 pm • Dinner: 6:30 pm • Announcements: 7 pm
Speaker: 7:15 to 8 pm • $30 with Reservation; $35 No Reservation/Non-Members; $25 Retirees/Unemployed; $5 Students. Reservations are preferred. Contact Julie Nimer at the Chapter Office 586-944-5656 or e-mail asmdetroitchapter@gmail.com by May 5th.
A Message from JP

It is hard to believe that our 2016-17 Chapter Year is coming to close! As I pen down this final message as the Detroit Chapter Chair, I would like to thank our exceptional team, whose tireless dedication has brought you another successful year of excellent programs and events.

I figure, the best way to thank our team and membership is by highlighting some of the key accomplishments for this year:

- We kicked off our year with ASM Teacher’s Camp in July where we enjoyed hosting 32 teachers from the US, Canada, and Brazil for the advanced version of Teachers Camp.
- Later in August, we held a very successful golf outing with 104 golfers in attendance.
- In September, we had a very well attended and successful Student Mixer outreach event at University of Michigan, Ann Arbor campus.
- During annual ASM Officer’s visit from Dr. William Frazier, ASM International President and Thomas Dudley, Executive Liaison, we toured Lightweighting Innovations for Tomorrow (LIFT) Center, Linear AMS for 3D manufacturing, Joyworks Studio’s casting prototype facility, and visited original meeting place of ASM’s founder at Park Metallurgical/Heatbath in Detroit.
- We had two additional interactions with UofM MMS students this year, one in November ’16 when ASM officers were in town and one in March ’17, during an MMS luncheon presentation, where we highlighted the benefits of joining ASM. In addition, we had a similar successful outreach with MMU students at Michigan Tech in April ’17.
- In several technical talks throughout the year, we covered topics ranging from aluminum alloys, high-pressure die-castings & composites in vehicle lightweighting, flood welding and its impact on forging industry, and 3D Manufacturing as it launches itself as a new frontier of manufacturing worldwide.
- We trained several of our members through a very well attended course offering on non-destructive evaluation of automotive components using X-rays/CT scans and ultrasonic inspection techniques.
- Our upcoming Woodside lecturer this May is Dr. Ron Radzilowski who has had a long and successful career in steel industry will be talking about “Emerging Technologies - From Research to Manufacturing.”

We granted several scholarship and awards throughout the Chapter year:

- Awarded six $250 grants through Teacher Scholarship Program to ASM Teachers Camp scholars for the purchase of equipment and supplies for materials-related experiments.
- Awarded two Students scholarships, titled Marion Semchyschen and James A. Mansfield Scholarships, for $1500 each to students selected for their high scholastic achievement and their activities in the field of materials science and metallurgy.
- Through ASM International, we awarded four Technical & Community College Scholarships for $500 each. Three of the winners were from our Detroit area.
- ESD Future Cities competition awarded ASM Detroit Chapter Student Achievements in Materials.
- Six awards to Detroit Science Fair Students.

Few other highlights of the year were various honors received by our members:

- Dr. Susan Hartfield-Wünsch, Dr. Manish Mehta, and Dr. Peg Jones (Saginaw Valley Chapter member) were awarded the much-coveted ASM International Awards Fellow Status.
- ASM International President’s Award given to Eric McCarty, 2015-16 Chapter Chair at ESD Gold Award ceremony, for his outstanding service to our Chapter.

All of the above has been possible due to your participation and dedication to our organization. As I continue my transition into the role of ASM International’s Chapter Council Representative for District 12, I hope to stay closely connected and working with not just our members from the Detroit Chapter but also with the ASM members in West Michigan and Saginaw Valley Chapters. More to come on this role and Council activities in the future newsletters. Please continue with your much-appreciated support to the new leadership team that takes over in June this year for the 2017-18 Chapter year.

I wish you a very relaxing summer and look forward to joining you all for 2017-18 Chapter year events. My very best to you and thank you once again!
Thank You

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We are pleased to announce that Heatbath/Park Metallurgical will sponsor the social hour event for our May 8th meeting. We sincerely appreciate their support.

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On March 29th, 2017, past ASM Detroit Chair, Eric McCarty was our Chapter’s honoree for a Chapter President’s Award at the ESD’s Gold Awards Banquet. Six of our ASM Detroit Chapter 2016-2017 Board Members attended the event. Pictured from Left to Right: Urban De Souza, Jason Coryell, Eric McCarty, JP Singh, Thomas Kozina, and Kae Trojanowski (not pictured).
Meet The Candidates

To cast your vote, please click on the link below. You will be directed to the voting ballot on Survey Monkey. Please vote by May 31st. If you wish to receive a paper copy of the ballot to mail in, please email Julie at asm detroitchapter@gmail.com. Survey: www.surveymonkey.com/r/656TCBL

Election of One (1) New Officer

ALYN GRAY is a Project Engineer for General Motors in the Warren Metallurgy & Failure Analysis Lab and has a Master of Science in Materials Science and Engineering from North Texas. He first joined ASM as the North Texas Student Chapter President of Materials Advantage. As a graduate student at North Texas, his thesis involved characterizing composition – microstructure – property relationships in additive manufactured titanium and nickel based alloys for alloy development. He also interned for ATI Specialty Materials as a Research & Development Engineer where his focus involved development of nickel based alloys for aerospace applications.

Alyn Gray

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Contact: Cindy Jiang (248) 668-3891 cindy.jiang@aet-int.com
Ron was elected a Fellow of ASM (FASM) in 2009 for “significant contributions to the application of metallurgical principles to the production of ferroalloys, superalloys, stainless steels and automotive carbon steels.” He received the 2010 President’s Award from ASM Detroit Chapter, Extractive Metallurgy Science Award Gold Metal from The Metallurgical Society of AIME, a National Steel Fellowship, and the Harvey M. Merker Award from the American Institute of Chemical Engineers.

Ron’s specialties span a broad range of technical areas which include technology scouting, process computer modeling, forensic metallurgy, high temperature gas-metal reactions, solid ionic conduction for battery applications, and alternative iron making processes.

ERIC MCCARTY BIOGRAPHY

Mr. Eric McCarty earned his Bachelor of Science and Master of Science degrees in Metallurgical Engineering from Michigan Technological University in 1990 and 1993 respectively, and his MBA from Oakland University in 2000. In 2009, Mr. McCarty earned his Project Management Certification from the Project Management Institute.

Mr. McCarty worked for fourteen years at Chrysler Group LLC as the Manager of the Castings, Forgings and Heat Treat department, for five years at Technikon, LLC as the Metals Technology Director, and for the last four years as President of Materials Technologies Consulting, LLC. He was Co-Director of the United States Automotive Materials Partnership (USAMP) Automotive Metals Division and chaired this group twice in 2005 and 2008, where he co-directed advanced research into lightweight metals and related joining technologies. During his career, Mr. McCarty has a patent, has many technical publications and presentations to his name, and received the USCAR Special Recognition Award in 2006 and USCAR Research Partner Award in 2011.

Mr. McCarty is currently the President of Materials Technologies Consulting, LLC (MTC), which provides technical project management services for materials related research projects. Current clients include the USAMP, Steel Market Development Institute, and the Auto/Steel Partnership with projects on lightweight metals research including magnesium sheet, third generation steels, fatigue, joining, fracture modeling, and machinability.

Mr. McCarty is a member of the American Foundry Society, Project Management Institute – Great Lakes Chapter, ASM Heat Treat Society, and ASM International Detroit Chapter. Mr. McCarty is currently the Finance Chair of the ASM International Detroit Chapter and was Chair during the 2015-2016 academic year.
At the April 10th meeting, James Boileau (ASM Detroit Chapter Secretary) and Alyn Gray (ASM Detroit Chapter Student Affairs Co-Chair) present David Oates, Frosilda Pushani, and Veronica Marougail with Materials Science Professional Awards from the ASM Detroit Chapter.

At the April 10th meeting, James Boileau (ASM Detroit Chapter Secretary) and Alyn Gray (ASM Detroit Chapter Student Affairs Co-Chair) present the James A. Mansfield Scholarship to Luis Rangel DaCosta.

JP Singh (current ASM Chair), Dr. James Boileau (current ASM Secretary and Tech Chair for the evening) and Kelly Zbeigan (current AFS Chair) present Dr. Jake Zindel and Larry Godlewski with speaker awards for their participation in the April 10th joint ASM/AFS meeting.

On April 18th, 2017, Eric McCarty (ASM Detroit Chapter Finance Chair) met with the Michigan Technological University Materials United group. Material United is a composite group of AFS, ASM, ACerS, AIIST and TMS. Eric gave a quick overview about ASM and also a presentation from the DOE/USAMP ICME-3G AHSS project. The former was to show the advantages of ASM for professional development and the latter was to demonstrate the need for professional networks to conduct collaborative work. Eric also presented the Marion Semchyshen Scholarship to Kristen Bull, who is shown in the photo holding her award.
ASM Detroit Chapter & AFS Detroit/Windsor Chapter
9th Annual Golf Outing
Saturday, August 5th, 2017

This year’s event will be held Saturday, August 5th at the beautiful Fellows Creek Golf Course in Canton, Michigan.

The event is ASM-Detroit Chapter’s & Detroit Windsor AFS Chapter’s yearly fundraising project and is only made possible by our generous sponsors and golfers. This is a unique opportunity for local business owners and chapter members to promote their goods and services. It’s also a great place to network with others and have a great time.

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